	Application No.	Applicant(s)	
Notice of Allowability	10/653,652 Examiner	BEER, PETER Art Unit	
	Gene N. Auduong	2827	
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT F of the Office or upon petition by the applicant. See 37 CFR 1.31	nears on the cover sheet will be (OR REMAINS) CLOSED in (OR OR REMAINS) or other appropriate commits (RIGHTS. This application is a 3 and MPEP 1308.	th the correspondence address n this application. If not included unication will be mailed in due course. THIS	
1. This communication is responsive to <u>application filed Sep</u>	<u>tember 2, 2003</u> .		
2. The allowed claim(s) is/are <u>1-9</u> .			
3. $\boxtimes$ The drawings filed on <u>02 September 2003</u> are accepted by	y the Examiner.		
4.	re been received. re been received in Application occuments have been received. re of this communication to file MENT of this application. mitted. Note the attached EX. wes reason(s) why the oath of ust be submitted. rson's Patent Drawing Review. r's Amendment / Comment of the header according to 37 Closit of BIOLOGICAL MAT	on No  In this national stage application from the din this national stage application from the a reply complying with the requirements  AMINER'S AMENDMENT or NOTICE OF redeclaration is deficient.  In ( PTO-948) attached  In the Office action of the drawings in the front (not the back) of FR 1.121(d).  ERIAL must be submitted. Note the	
<ul> <li>Attachment(s)</li> <li>1. ☑ Notice of References Cited (PTO-892)</li> <li>2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)</li> <li>3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB Paper No./Mail Date 09-02-2003</li> <li>4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material</li> </ul>	6. Interview S Paper No. 7. Examiner's	aformal Patent Application (PTO-152) summary (PTO-413), /Mail Date Amendment/Comment  Statement of Reasons for Allowance  Gene N Auduong Primary Examiner Art Unit 2827	

## **DETAILED ACTION**

## **Priority**

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

## Information Disclosure Statement

2. The information disclosure statement (IDS) submitted on September 2, 2003 is being considered by the examiner.

## Allowable Subject Matter

- 3. Claims 1-9 are allowed.
- 4. The following is an examiner's statement of reasons for allowance:

The prior art does not teach or fairly disclose a read-out circuit for a memory device as claimed, comprising: an interchanging circuit connected to each of the bit lines of one of the bit line pairs and having a first data output line, a second data output line adjacent the first data output line, a third data output line adjacent the second output line, and a fourth data output line adjacent the third output line; the interchanging circuit being configured to apply the bit lines connected to the storage capacitors to the second and third data output lines by activating the word line and to apply the bit lines not connected to the memory cells to the first and fourth data output lines; a first sense amplifier connected to the first and second data output lines; a second sense amplifier connected to the third and fourth data output lines; and a third sense amplifier connected to the second and third data output lines; the first, second, and third sense amplifiers each being configured to amplify a potential difference on the respective two connected lines.

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Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Gene N. Auduong whose telephone number is (571) 272-1773. The examiner can normally be reached on 9-5-4, alternate second Monday Off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hoai Ho can be reached on (571) 272-1777. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

GA

February 28, 2005

Gene N Auduong Primary Examiner Art Unit 2827